

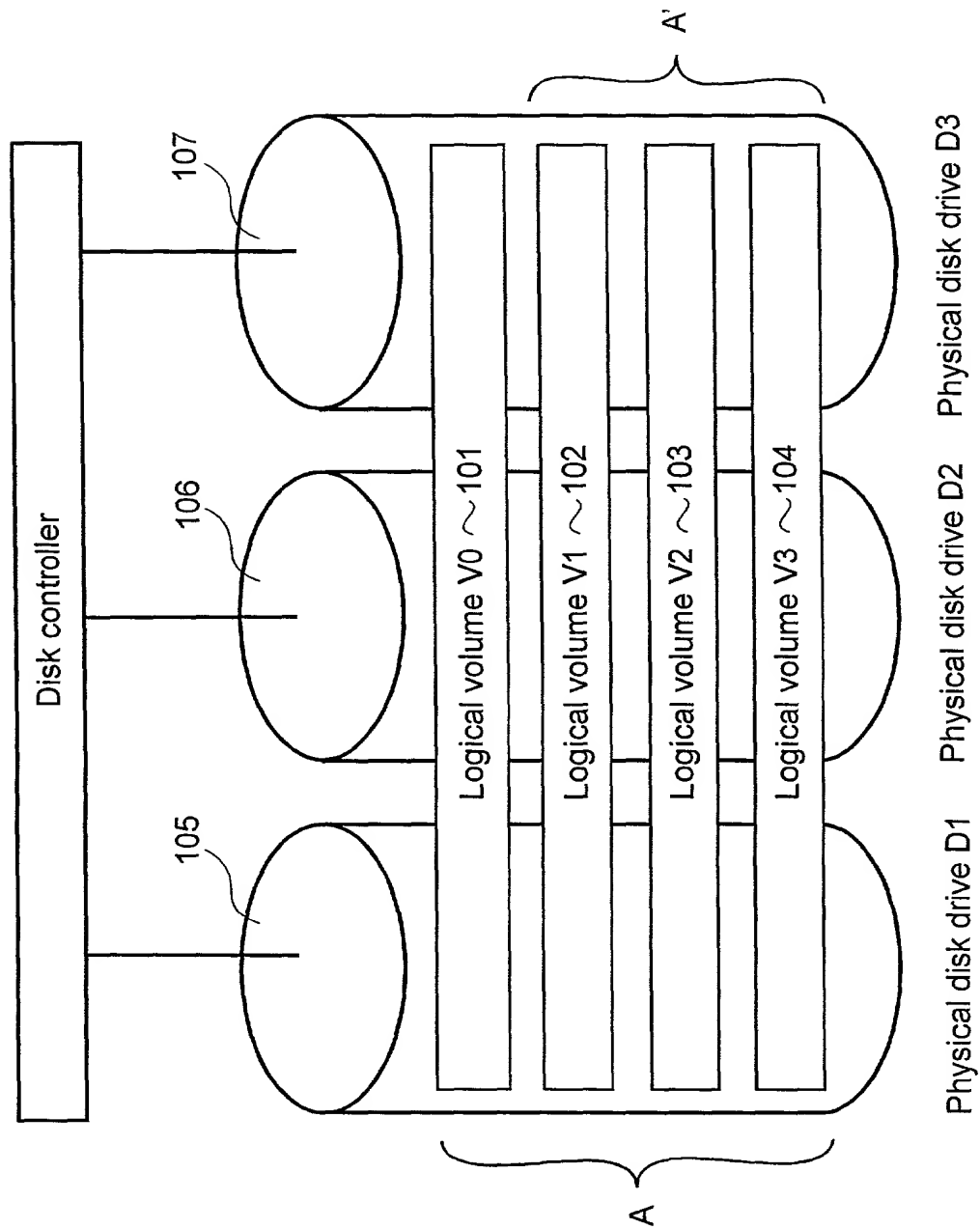
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Title: System and Method for Storing Data

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FIG.1



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FIG.2

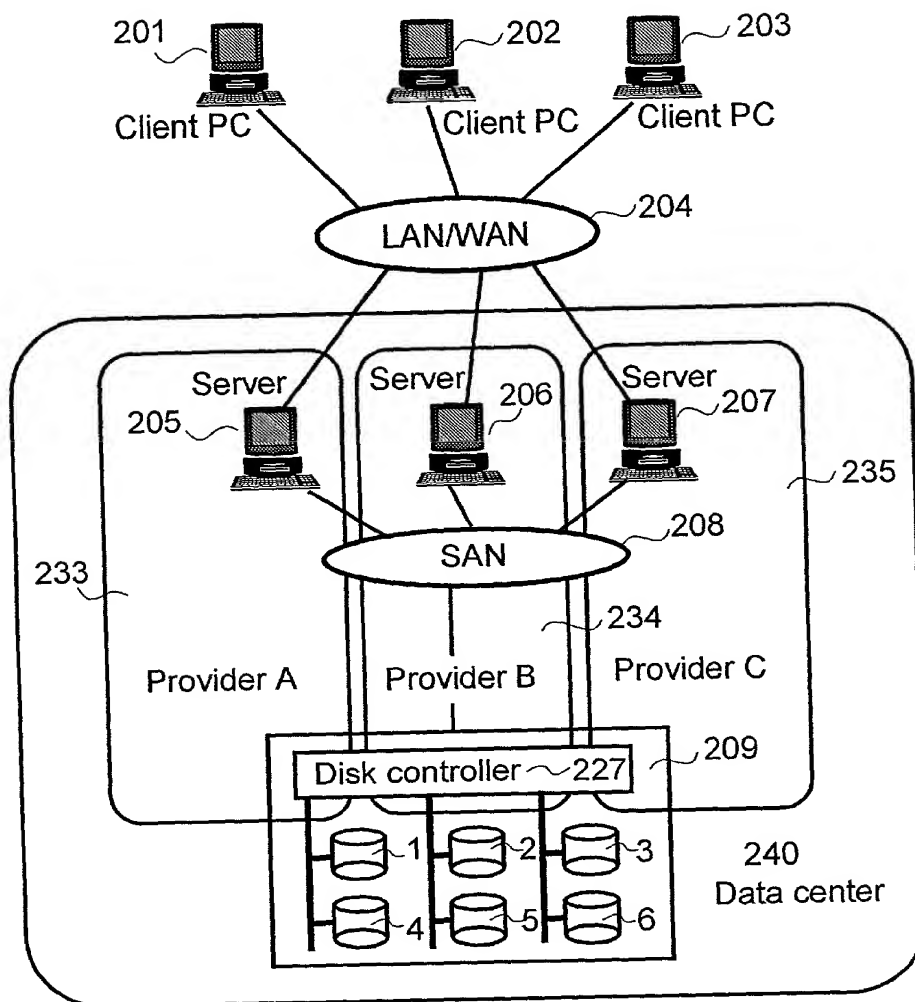
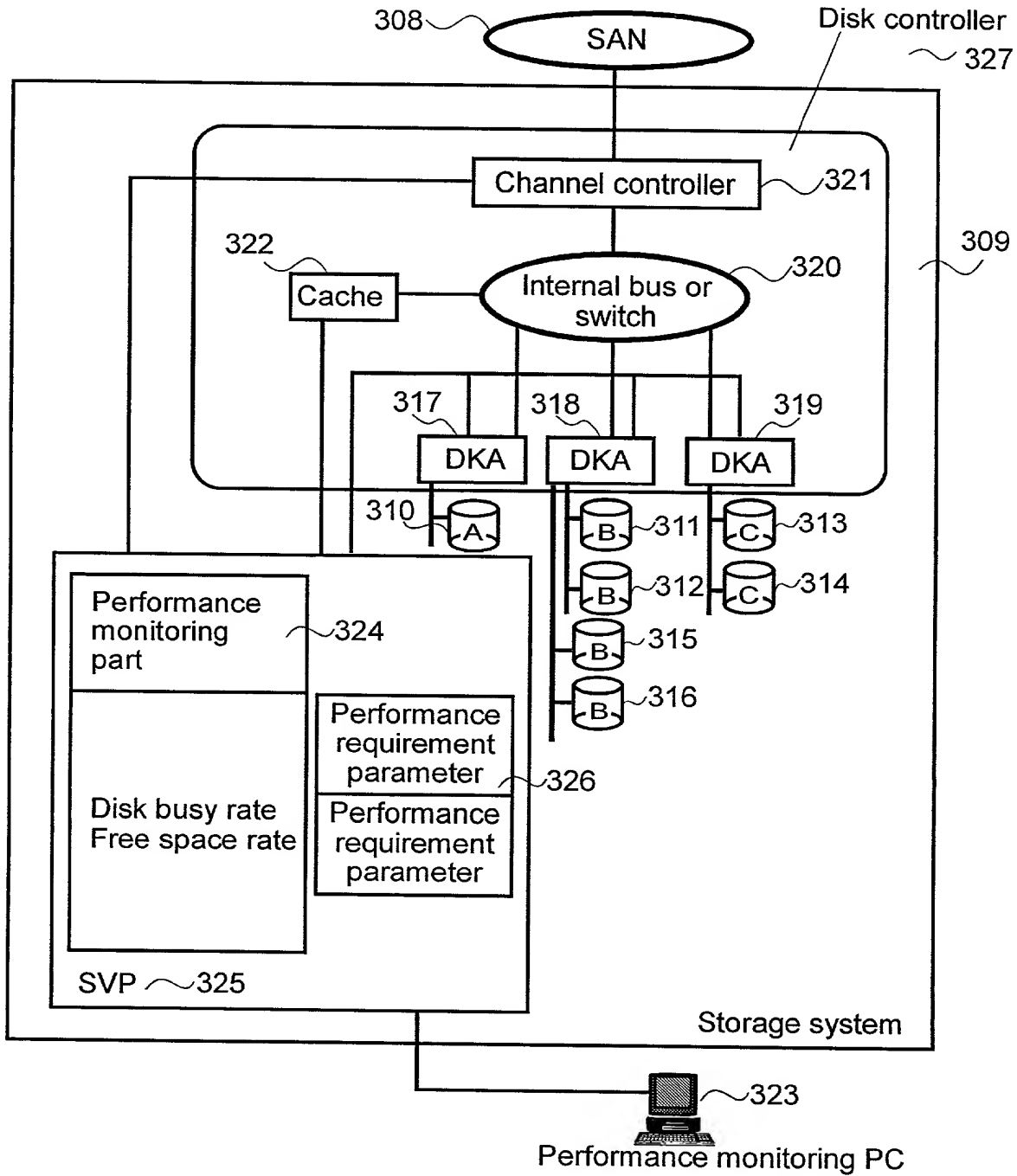


FIG.3

Detailed drawing of storage system



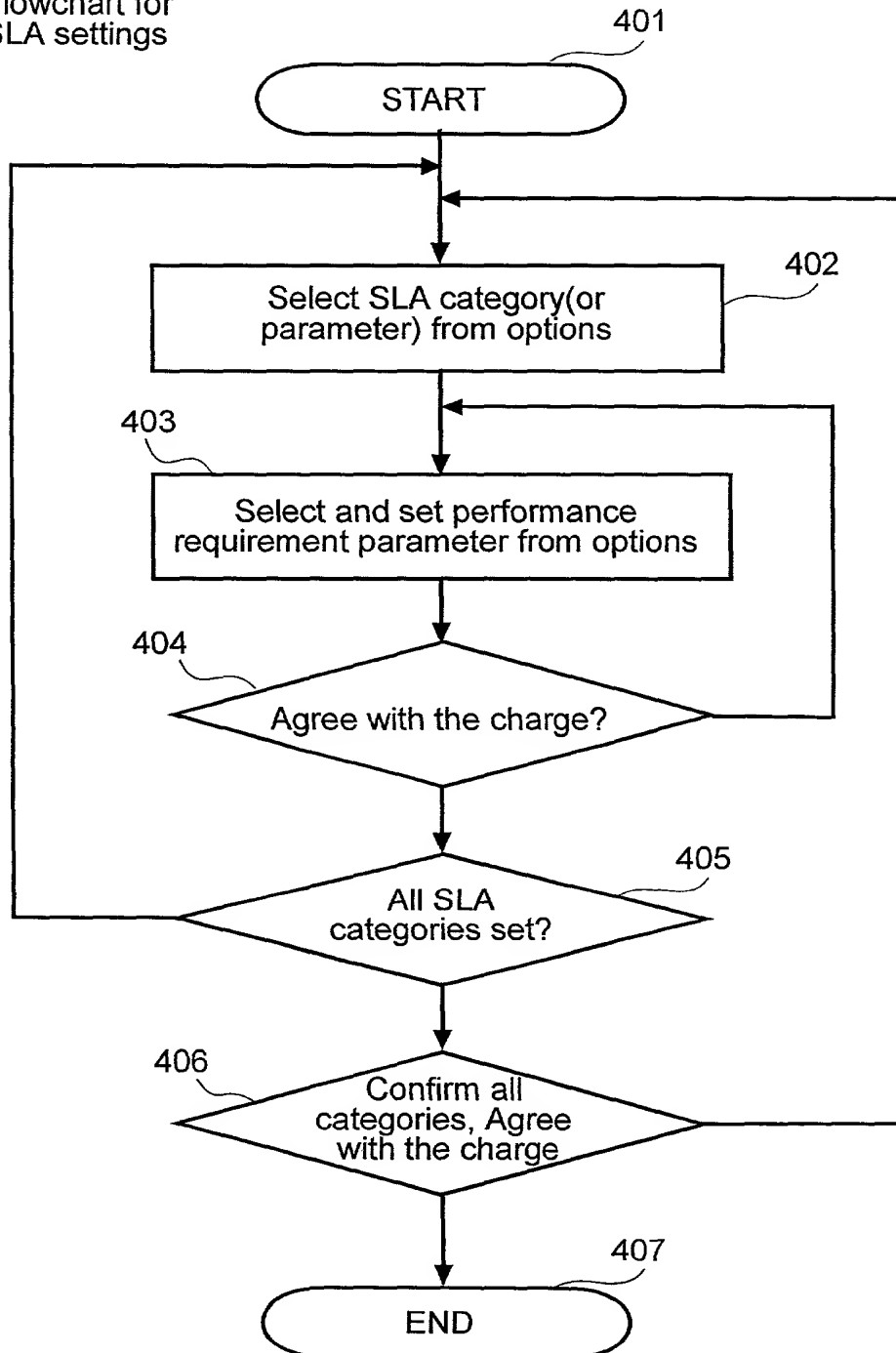
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FIG.4

Flowchart for
SLA settings

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FIG.5

Category selection
screen

501	<input type="checkbox"/>	I/O accessibility
502	<input type="checkbox"/>	Data transfer volume
503	<input type="checkbox"/>	Disk busy rate
504	<input type="checkbox"/>	Data transmission speed
		.
		.
		.

FIG.6

Performance requirement
parameter setting screen

Disk busy rates	
Type A: __Average XX%	AA yen/month ~ 601
Type B: __Average YY%	AA yen/month ~ 602
Type C: __Average ZZ%	AA yen/month ~ 603
Type A: Suited for storing data accessed by end user	
Type B: Suited for storing client data	
Type C: Suited for storing application files	

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FIG.7

701 Logical volume number	702 Average drive busy rate	703 Maximum drive busy rate	704 Average drive busy (after migration)	705 Maximum drive busy (after migration)
V0	10.7%	15%	40%	50%
V1	28.3%	35%	22.3%	25%
V2	16.7%	15%	39%	45%
.
.
.
RAID group : 1 RAID group average drive busy rate (required rate) : Average 60% or less				

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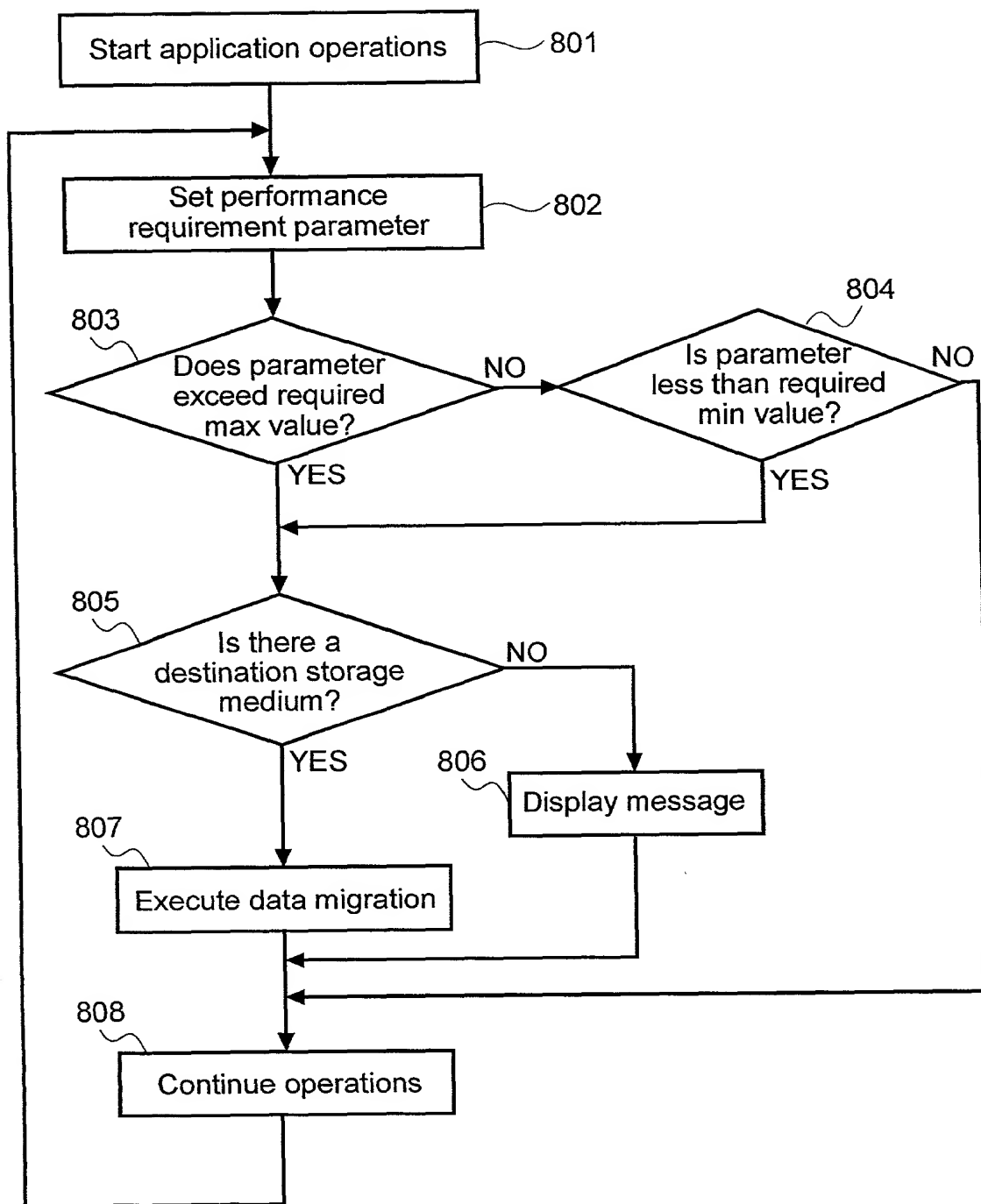
FIG.8

FIG.9

Flowchart for outputting
reports

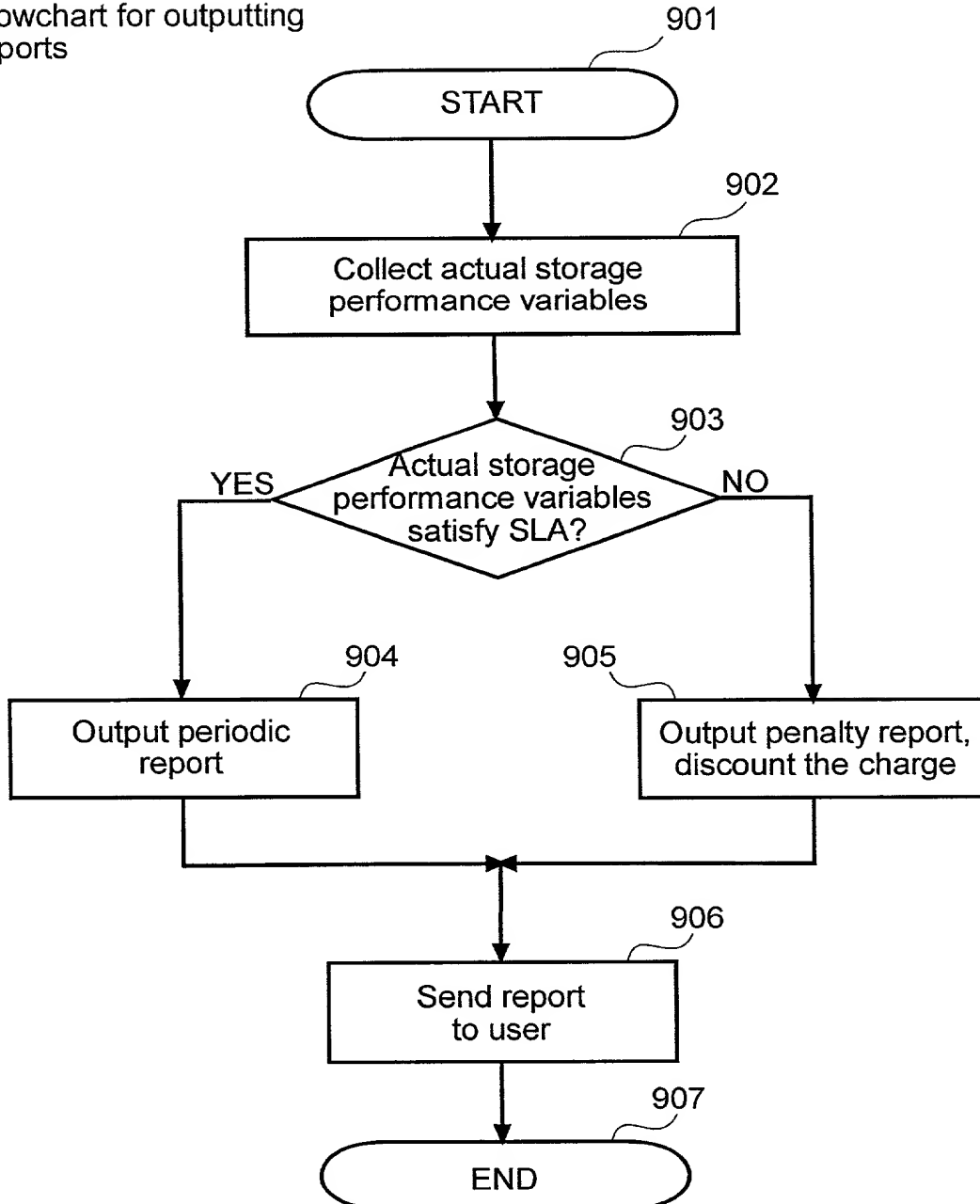
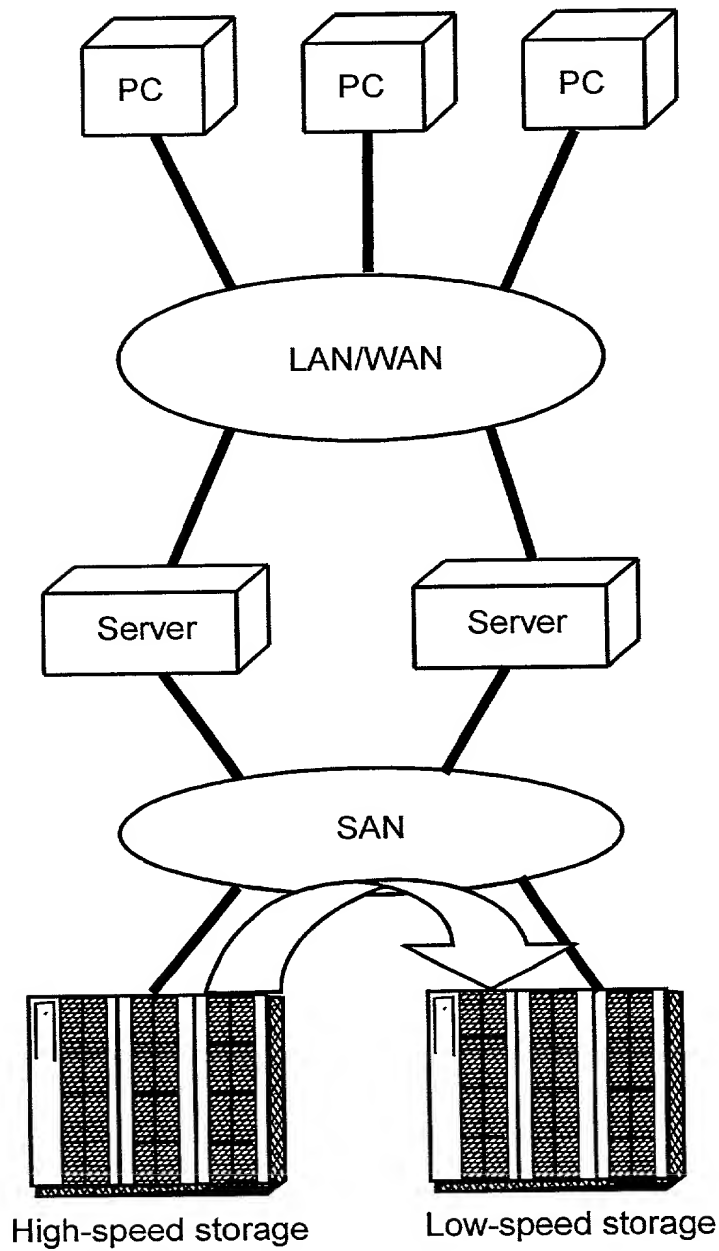


FIG.10

Migration to different device



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FIG.11

RAID group 1						Average drive busy rate: 50.7%			
	D1	D2	D3	Average	Average drive busy rate after volume migration				
V0	15	10	7	10.7	40				
V1	30	20	35	28.3	22.3				
V2	10	10	15	16.7	39				
Entire drive	55	40	57	50.7					

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FIG.12

RAID group 2

Average drive busy rate: 13.3%

	D1	D2	D3	Average
V3	10	5	5	6.7
V4	5	10	10	6.7
Entire drive	15	15	10	13.3

FIG.13

RAID group 2 Average drive busy rate:13.3%→41.7%(expected)

	D1	D2	D3	Average
V3	10	5	5	6.7
V4	5	10	10	6.7
Entire drive	15	15	10	13.3
V1	30	20	35	
Entire drive (expected)	45	35	45	41.7